

### **What is Claimed is:**

1. A lock mechanism for latching a first object then coupling with a second object, comprising:
  - a case having a bolt assembly;
  - 5 a first shackle being selectively coupled with the case and forming a closed boundary with the case to latch the first object at a latch position and unfastening the closed boundary at a release position, and being latched and anchored by the bolt assembly at the latch position; and
  - a second shackle movably mounted on the case at a first position to latch the
  - 10 second object and at a second position to release the latching of the second object, and being at the second position normally and driven by the first shackle to change the positions.
2. The lock mechanism of claim 1, wherein the first shackle has two end coupling on the case at the latch position, and has at least one end separating from the case at the
- 15 release position.
3. The lock mechanism of claim 1, wherein the first shackle is flexible.
4. The lock mechanism of claim 1, wherein the first shackle is rigid.
5. The lock mechanism of claim 1, wherein the case further has an elastic element to provide a returning force to keep the second shackle at the second position normally.
- 20 6. The lock mechanism of claim 1, wherein the case has a cartridge trough to house the second object.
7. The lock mechanism of claim 1, wherein the case and the second object have respectively a mating coupling interface for coupling with each other by latching.
8. The lock mechanism of claim 1, wherein the case and the second object have

respectively a mating coupling interface for coupling with each other by sliding.

9. The lock mechanism of claim 1, wherein the case further has a winch and an actuating member for controlling movements of the winch, the actuating member being harnessed by the second shackle at the first position.

5 10. A lock mechanism for latching a first object then coupling with a second object, comprising:

a case having a bolt assembly;

10 a first shackle being selectively coupled with the case and forming a closed boundary with the case to latch the first object at a latch position and unfastening the closed boundary at a release position, and being latched and anchored by the bolt assembly at the latch position; and

15 a second shackle movably mounted on the case at a first position to latch the second object and at a second position to release the latching of the second object, and being at the first position normally, and being movable when the first shackle is moved to the release position.

11. The lock mechanism of claim 10, wherein the second shackle is a rod which has a distal end forming a sloped surface.

12. The lock mechanism of claim 10, wherein the second shackle is located in the case at the second position, and extended outside the case at the first position normally.

20 13. The lock mechanism of claim 10, wherein the case has a retaining member driven by the first shackle such that the retaining member constrains the second shackle from moving when the first shackle is at the latch position, and the retaining member does not constrain the second shackle from moving when the first shackle is at the release position.

14. The lock mechanism of claim 13, wherein the case includes an elastic element which keeps the retaining member from constraining the second shackle normally, and moves the retaining member to its original position when the first shackle releases the retaining member from moving constraint.
- 5 15. The lock mechanism of claim 13, wherein the case includes an actuating member for driving the second shackle to move to the latch position and the release position, and being harnessed by the retaining member without moving the second shackle when the first shackle is at the latch position.
- 10 16. The lock mechanism of claim 15, wherein the actuating member includes a guiding slot for connecting to one end of the second shackle.
17. The lock mechanism of claim 15, wherein the actuating member includes at least one linkage bar for connecting to the second shackle.
18. The lock mechanism of claim 15, wherein the actuating member has a wedge end, and the second shackle has a wedge section corresponding to the wedge end.
- 15 19. The lock mechanism of claim 15, wherein the case has a winch controlled by the actuating member.